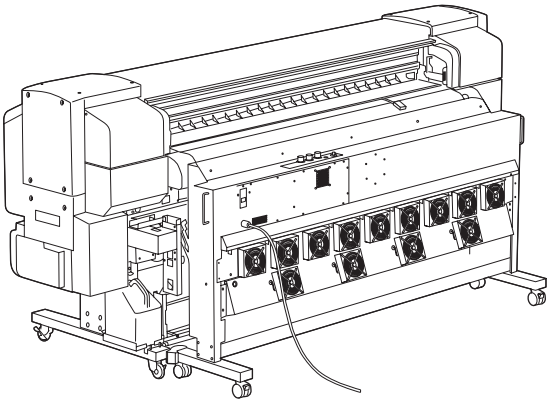
SII

User's Guide U00087124400

Dryer 64

for Solvent Ink Inkjet Printer IP-6600

IP-260/IP-263



Read this User's Guide to use the printer safely and properly. Keep this manual in a place where you can quickly access it at any time.

Seiko I Infotech Inc.

IP-260 / IP-263 Dryer 64 for Solvent Inkjet Printer IP-6600 User's Guide
Documents Number U00087124400

First Edition, March 2004

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This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.
This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Introduction

Thank you for purchasing the IP-260/263 Dryer 64 that is exclusively used for our Solvent Inkjet Printer IP-6600.

The unit is designed to effectively dry media (ink) printed by and released from the printer. This aims to maximize the fast printing performance (16 m^2/hour) that characterizes our Solvent Inkjet Printer IP-6600.

Features:

- High-speed media (ink) drying in response to fast printing (16 m^2/hour.

  This warm air-based high-speed media (ink) drying is achieved by partitioning the media path of the IP-6600 printer, ranging from the media release guide to the media reel, from the air outside.

Note:

16 m^2/hour is the value when the printing width is 50 inches or more.

- Drying time preset function up to 12 hours

  Equipping a timer allows users to preset the drying time by each hour up to 12 hours, resulting in effective drying and power saving.

- Direct media release function

  Only switching the media path of the IP-6600 to the direct media release allows users to directly release media from the rear side of the IP-6600 printer while drying it.

Note:

Thoroughly drying ink itself is additionally needed for media to which laminate post processing is applied. Hence, it is not recommended the laminate post processing be applied just after the media is released.

Some media cannot be dried up sufficiently depending on a type.

In case of that, set "SCAN TIME" on the operation panel of the printer to dry the media sufficiently.

Users can install the dryer in the IP-6600. To maximize the drying performance of this unit, correctly use it in accordance with the instructions described in this manual.

The following items should be read before reading Section 1.

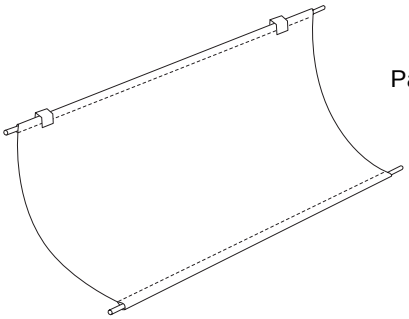
- Deliverables
- Safety precautions
- Handling precautions
- Manual legent (Notation rules)

Read these items to use the dryer safely and properly. Keep this manual in a place where you can quickly access it at any time.

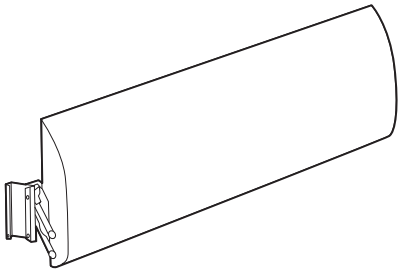
Deliverables

Make sure that the following items are present.
If any parts are missing or damaged, contact the shop where you purchases the product or the service dealer.

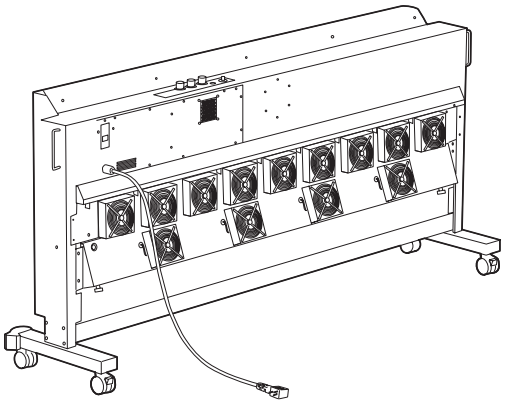
Components



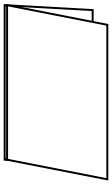
Partition cloth <1>



Drying guide plate <1>



Dryer <1>



User's Guide (This manual) <1>

Safety Precautions

The following symbols are used in this manual to ensure the proper use of the dryer and to prevent the dryer from being damaged. Follow the instructions marked with these symbols.

⚠ WARNING	Serious personal injury or death: Failure to follow the guidelines marked with this symbol could result in serious personal injury or death.
⚠ CAUTION	Minor personal injury or product and/or peripheral damage: Failure to follow the guidelines marked with this symbol could result in minor personal injury or product and/or peripheral damage.

Example of symbols:

This symbol (△) denotes items that require special care while executing a certain procedure or operation.

This symbol (⃠) denotes items that are forbidden.

This symbol (●) denotes items you should follow to prevent accidents or injury.

⚠ WARNING

Use the power supply voltage specified on the nameplate. DO NOT plug several devices into a single electrical outlet as this might result in fire or electric shock.

Make sure the dryer is well grounded. If not, a short circuit may cause fire or electrical shock.

DO NOT disassemble or remodel the dryer. DO NOT repair the dryer by yourself. Doing so may cause fire, electric shock or other accidents.

DO NOT damage, break, process, or heat the power cable. Using a damaged power cable may cause fire or electric shock.

NEVER use the dryer in a place of extreme humidity or any place where it can possibly be splashed by any liquids. If any liquids get into the dryer, it could lead to fire, electric shock, or other serious accidents.

DO NOT remove the covers attached to the dryer because they contain high-voltage and extremely hot parts. Careless removal might result in an electric shock or burn.

DO NOT allow metal or liquids to touch the internal parts of the dryer. Doing so may cause fire, electric shock, or other accidents.

DO NOT disconnect or connect the power cable with wet hands. Doing so may lead to electric shock.

Turn the dryer off and unplug the power cable immediately after and during an electric storm.

⚠ WARNING

Power OFF the dryer and unplug the power cord from the power outlet in any of the following cases:

- When putting your hands inside the dryer.
- Smoke, strange noise or smells generate from the dryer.
- A piece of metal or any liquid touches the internal parts or slot of the dryer.
- An error requiring service by a service center occurs.

⚠ CAUTION

Handle the dryer with care because they are very heavy. If you drop them, it could lead to personal injury.

Hold the electric cable by the plug when connecting or disconnecting it. Failure to do so may cause the cable to fray or break which could lead to electric shock and/or fire.

DO NOT install the dryer in unstable places such as on an fastage and an inclining place.
If you drop or fall the dryer, it could lead to personal injury.

The heater will be hot.
Pay attention not to touch and not to be burned.

In order to ensure the safe operation of the printer, read all of the cautions and warnings contained throughout this manual.

Handling Precautions

Power Supply

1. Install the dryer near an easily accessible electrical outlet.
2. Do not provide power to the dryer through the same power line as for noise-generating devices, such as a motor.
3. The power supply voltage must be 230 VAC.
4. Connect the power cable to an electrical outlet. Do not plug several devices into a single electrical outlet.

Dryer

1. Do not place anything on top of the dryer. Do not rest your elbows on the dryer.
2. Do not clean the surface of the cover with benzene or paint thinner. The coating may come off or deteriorate.
   Wipe the cover clean with a soft cloth. If the cover is very dirty, use a cloth moistened with a neutral detergent.
3. This dryer is prepared only as the media (ink) drying device for the IP-6600 printer.
   Do not use any other dvices or any other pursoses.
4. Remove the protection sheet attached on the surface of the dryer before use.

Limitations

1. When the dryer is used, the tension winding cannot be used.
2. When the dryer is used, the media saving mode function cannot be used.

Manual Legend (Notational rules)

This manual uses the notational rules for marks.

Marks

⚠ WARNING

Boxes marked with a "WARNING" describe points of caution for avoiding serious personal injury.

⚠ CAUTION

Boxes marked with a "CAUTION" describe points of caution for avoiding injury to yourself or damage to the dryer.

NOTE

Boxes marked with a note describe precautions while handling the dryer.

HINT: Hint mark

The hint symbol describes operations that make using or handling the dryer easier.

⇒ Reference mark

This mark is followed by a reference section or page number.

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Section 1 Part Names and Functions

This Section explains part names and functions of the dryer.

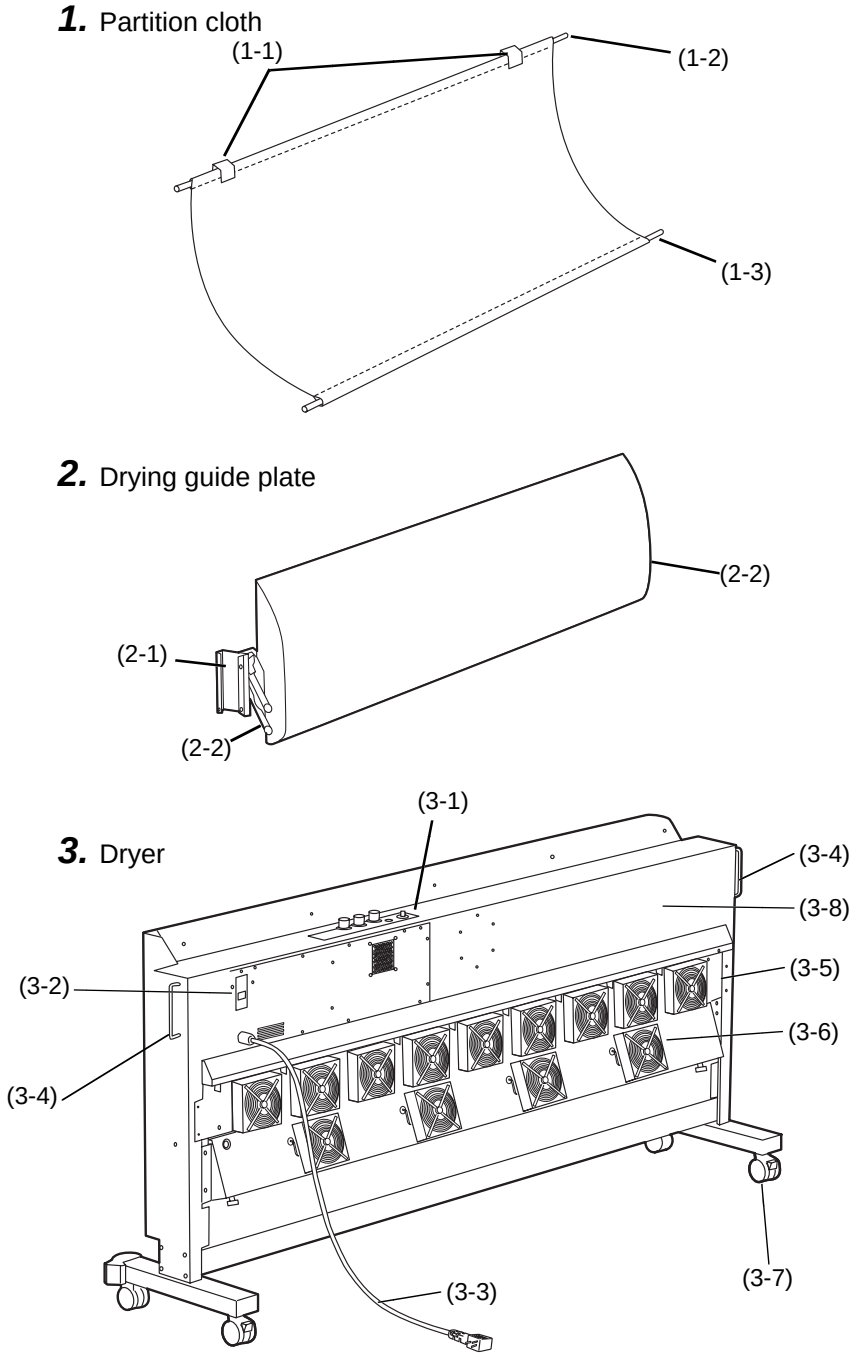


Figure 1-1 External View and Part Names of the Dryer

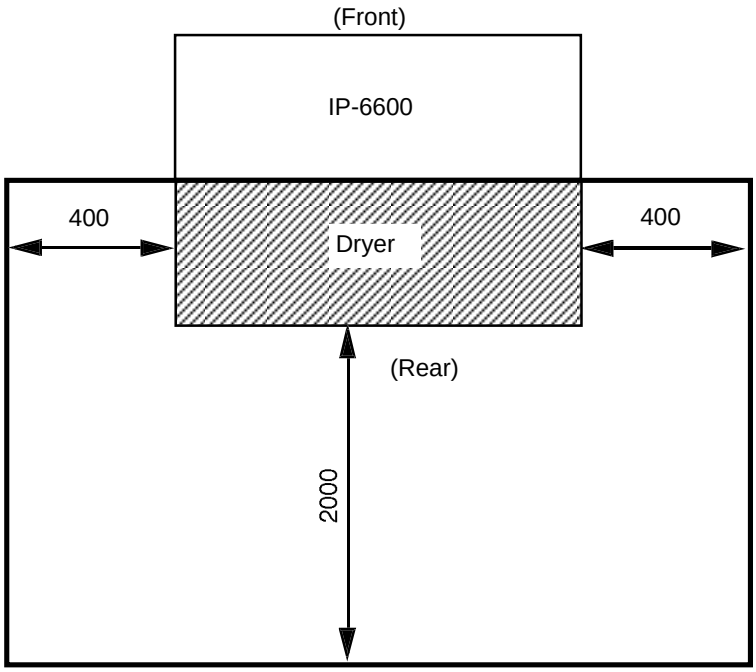
No.	Name	Description
1	Partition Cloth	The cloth that partitions the front of the dryer from the external air to increase drying efficiency.
1-1	Partition Cloth Attachment Hook	The metallic fitting that attaches the partition cloth to the front of the printer.
1-2	Partition Cloth Bar (Front)	The bar that attaches the partition cloth to the front of the printer.
1-3	Partition Cloth	The bar that attaches the partition cloth to the bottom of the printer.
2	Drying Guide Plate	The media path guide plate for using the dryer.
2-1	Drying Guide Attachment Plate	The attachment plate that fits the drying guide plate to the winding unit.
2-2	Drying Guide Sliding Rail	Slide the drying guide plate upward to set the media to the winding unit.
3	Dryer	The heater is builtin and the dryer sends warm wind by fans to dry up the printed media.
3-1	Operation Panel	The operation panel for the dryer. For details, see Chapter 3 Using the Operation Panel.
3-2	Breaker Switch	The switch that turns ON/OFF the dryer power.
3-3	Power Cord	The power cord that supplies power to the dryer. The one end is secured to the dryer. Specification: 207 to 253 VAC, 50 Hz ± 1 Hz
3-4	Handle	The handle used for moving the dryer. The handles are attached to both sides of the dryer.
3-5	Upper fans	The fans that are attached to blow air to the heater for generating warm air.(Suction type)
3-6	Lower fans	The fans that circulate warm air into the dryer. (Suction type)
3-7	Casters	The casters used for moving the dryer. The caster has a lock and release function.
3-8	Exhaust Attachments Attaching Part	The part to which the exhaust attachments (option) are attached.

Section 2 Installing

This Section explains how to install the dryer.

2-1 Required Installing Space

Keep the following installing space for the dryer.



Height: 1700
(Unit: mm)

Figure 2-1 Installing Space for the Dryer

2-2 Operational Environment

Use the dryer under the following operational environment.

Item	Specifications
Operation temperature and humidity range	Temperature: 15 to 30 °C Humidity : 30 to 70%RH (No condensing)
Standby temperature and humidity range	Temperature: 5 to 35 °C Humidity : 10 to 80%RH (No condensing)
Fine particles level	Equivalent to office environment
Ventilation	Ventilation facilities are recommended for deodorizing
Power supply	Power voltage : 230 VAC ± 10% Power frequency: 50 Hz ± 1Hz Grounding : D class grounding (The 3rd class grounding)

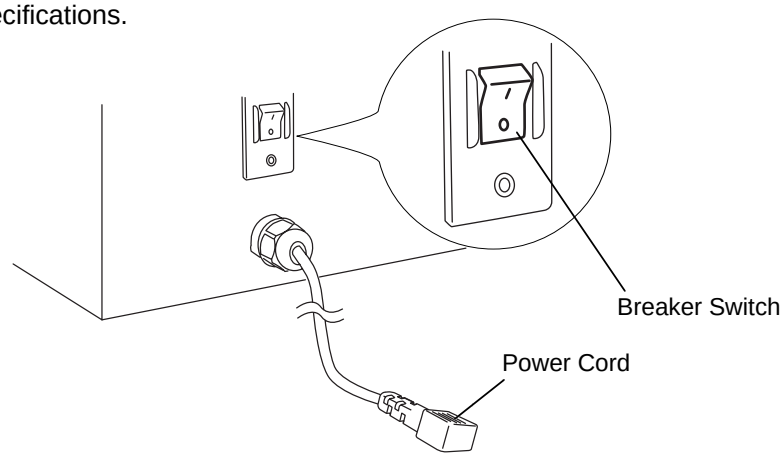
2-3 Pluging the Power Cord and Turning ON/OFF the Dryer

Plug the power cord of the dryer into the inlet after installing the dryer in the printer.

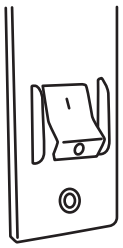
> NOTE
> The power specifications of the dryer are shown below.
> - Power voltage: 230 VAC ± 10 %
> - Power frequency: 50 Hz ± 1 Hz
> - Grounding: D class grounding (The 3rd class grounding)
>
> Always use power supply matched with the power specifications.

Follow the procedures below.

1. Verify that the breaker switch of the dryer is turned off (○) , and plug one edge of the power cord into the inlet matched with the specifications.



2. Turn on (|) the breaker switch of the dryer.



Section 3 Using the Operation Panel

3-1 Part Names and Functions

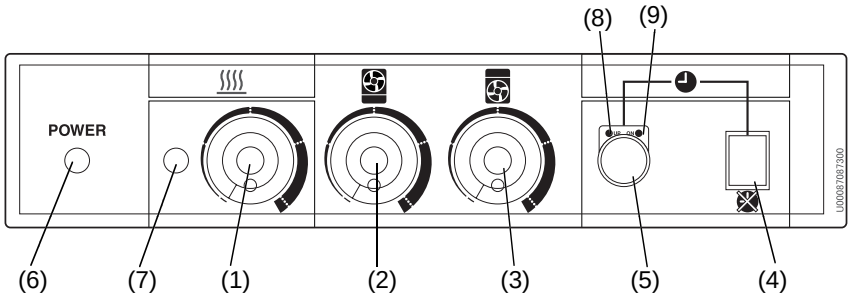


Figure 3-1 External View and Part Names of the Operation Panel

No.	Name	Description
1	Heater temperature preset dial (NOTE1)	Presets heater temperature using this dial. The heater turns on and off automatically to keep the preset temperature. Preset Range: 30 to 60 ° C (thermistor)
2	FAN (upper) airflow preset dial (NOTE1)	Presets the airflow of the upper FANs.
3	FAN (lower) airflow preset dial (NOTE1)	Presets the airflow of the lower FANs.
4	Timer switch	Selects use or not use of the off-timer.
5	Timer preset dial	Presets time up of the off-timer. Range: 1 to 12 hours Unit: 1 hour Only displays preset time for the off-timer. Judges the time up by the time up lamp (red).
6	Power lamp (Orange)	Displays the power on state of the dryer. Lit: Displays the power on state. Unlit: Displays the power off state.

(NOTE1) Turn the heater temperature preset dial to the highest and turn the fan (upper and lower) airflow preset dial to the low or middle to use the dryer 's performance maximum.
The preset temperature attainment lamp may not light even when the heater temperature preset dial is turned to the highest. However, temperature is saturated to the maximum temperature in approx. 20 minutes. When using media delicate for heating, adjust the heater temperature preset dial to low.

No.	Name	Description
7	Preset temperature attainment lamp (Green) (NOTE2)	Displays that the temperature has attainted the preset temperature. Lit: Displays the temperature attains the preset temperature. (Heater power off) Unlit: Displays the temperature does not attain the preset temperature.
8	Time up lamp (Red) (NOTE3)	Displays the time up state. Lit: Displays that the heater is turned off due to the time up. Unlit: Displays that the timer is in the count up state. (Heater on)
9	Timer active lamp	Displays the use state of the timer. Lit: Displays that the timer is in use state. Unlit: Displays that the timer is not in use state.

(NOTE2) When the heater temperature dial, FAN (upper) airflow preset dial, and FAN (lower) airflow preset dial are turned maximum, the preset temperature attainment lamp may not be lit. The dryer is designed so that the fan's airflow power is slightly stronger than the heater's heating power to maximize the drying up performance. (The heater is always turned on because the preset temperature cannot attain the maximum temperature 60°C.)
Even though the preset temperature attainment lamp is not lit, the temperature attains the maximum temperature in approx. 20 minutes after turning the breaker on.

(NOTE3) Even when the time up lamp is lit, the fans (upper and lower) are functioning based on the preset dials. (The heater is turned off.)
The preset temperature attainment lamp may also not be turned off due to remaining heat.

Section 4 Installing / Uninstalling Media

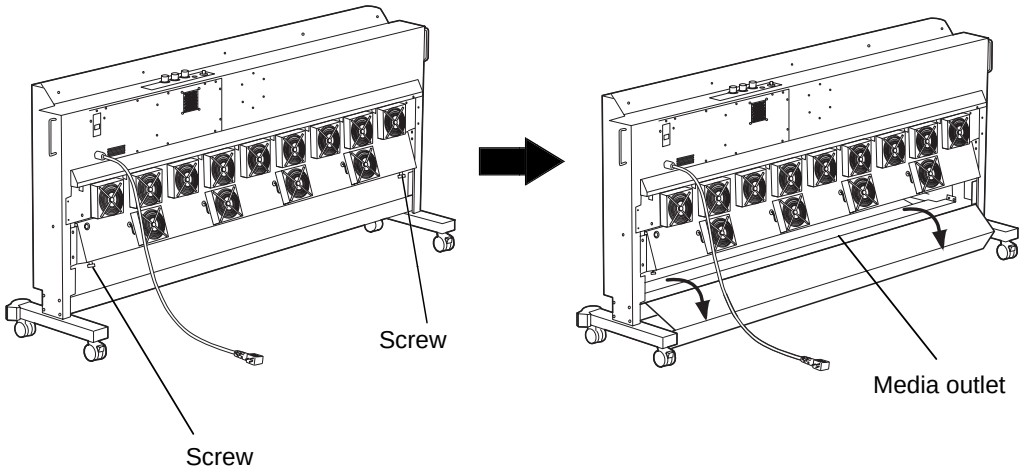
This Section explains how to install or uninstall media when the dryer is used.

4-1 Installing Media

When the dryer is used, install media according to the following procedures after attaching the fan vacuum positioning bar to the printer.
For procedures before attaching the fan vacuum positioning bar, see IP-6600 User's Guide, Section 2 Replacing Media.

■ When using the direct media release function

1. Loosen the green screws at the right and left bottom of the dryer and open the media outlet.



NOTE

- When the direct media release function is not desired (the winding unit is used), always close the media outlet to increase drying efficiency.

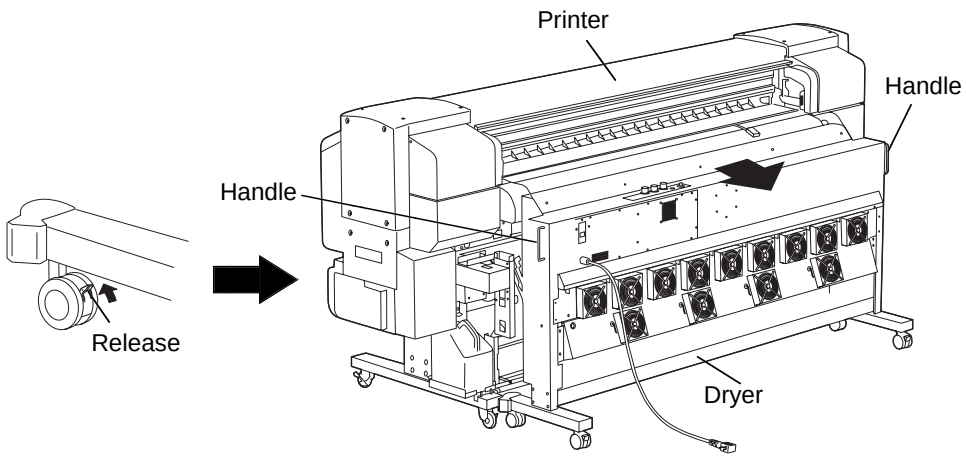
2. Feed media until the media is out from the media outlet during feed operation on the operation panel. See IP-6600 User's Guide, Section 3 Operation Panel Menu Operation. (Feed Menu)

■ When using the winding device

When the dryer using, install media according to the following procedures after installing the paper tube together with the leading paper in the winding unit. For procedures before installing the paper tube together with the leading paper in the winding device, see IP-6600 User's Guide, Section 2 Installing Media in the Winding Unit.

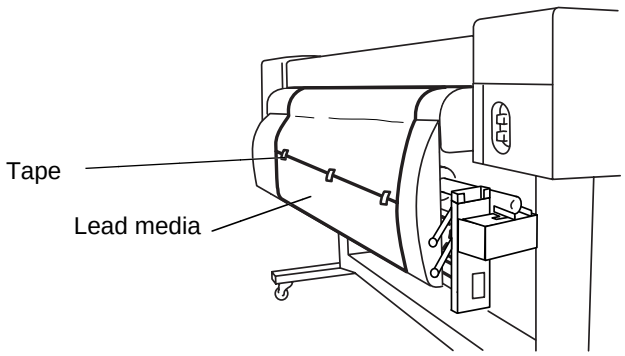
> NOTE
> - Tension winding cannot be used.

1. Release the casters of the dryer and move the dryer to the printer from the rear side of the printer using the right and left handles.

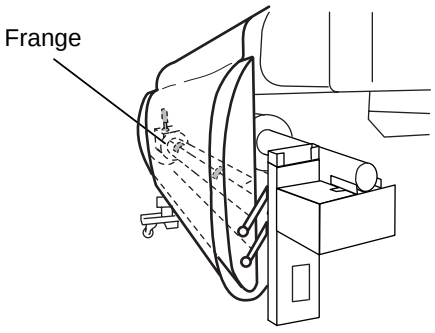


2. Feed the media using the feed menu on the printer's operation panel so that the media can be wound up. See IP-6600 User's Guide, Section 3 Operation Panel Menu Operation. (Feed Menu)

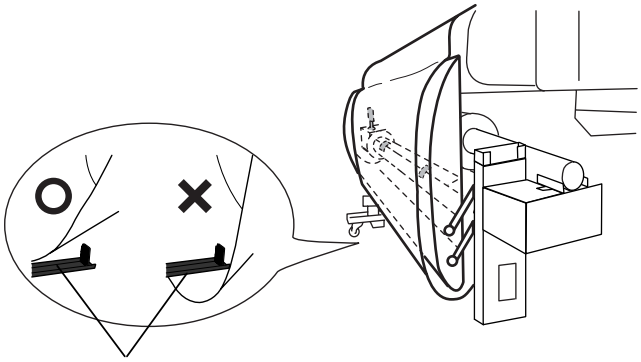
3. Tape the edge of the paper on the lead paper at three positions: both sides and center.



4. Manually turn the flange in the direction of winding to wind the paper slightly.

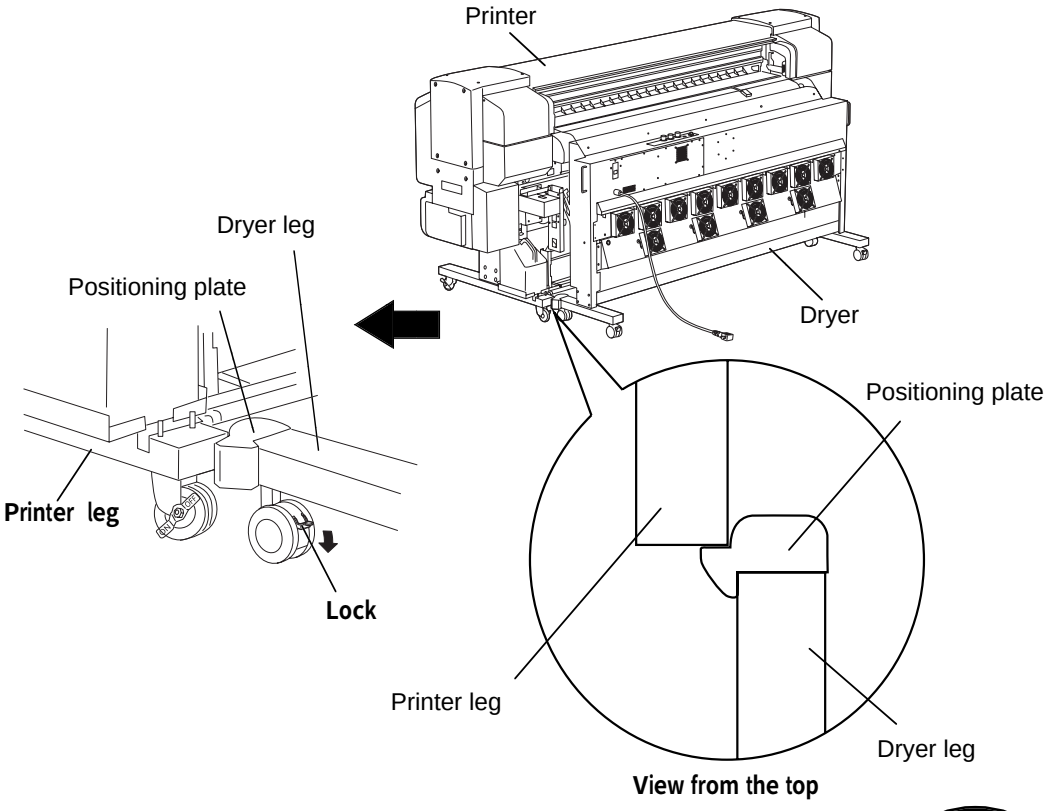


5. Verify the positioning between media and the winding sensor is correct. If it is wrong, install the media correctly.
Do not pass media under the winding sensor arm.



Winding sensor arm

6. Attach the dryer to the printer.
Position of the right and left legs of the dryer using the positioning rubber plate against the right and left legs of the printer. (See the following figure). Lock right and left casters of the dryer.



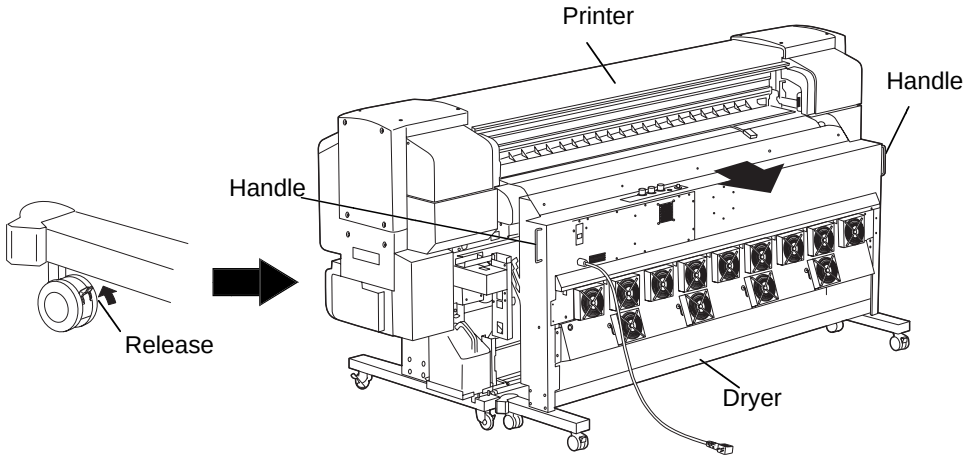
4-2 Uninstalling Media

■ When using the direct media release function

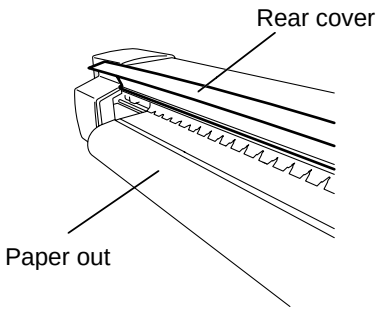
Refer to IP-6600 User's Guide, Section 2 Replacing Media.

■ When using the winding device

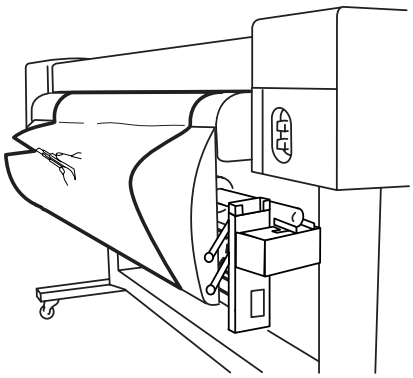
1. Release the casters of the dryer and move the dryer to the printer from the rear side of the printer using the right and left handles.



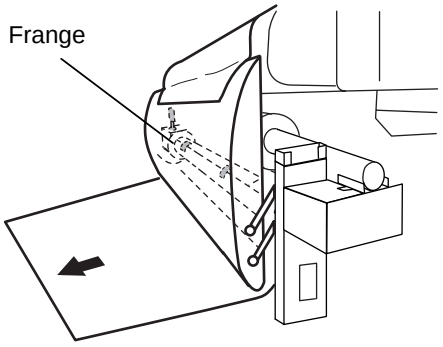
2. Lift the printer rear cover.



3. Cut the media using a cutter.



4. Pull out the media that is wound on the winding device by turning the flange and then cut it using a cutter or remove wholeprinted out media together with the media winding tube not to give forcible power to the media.



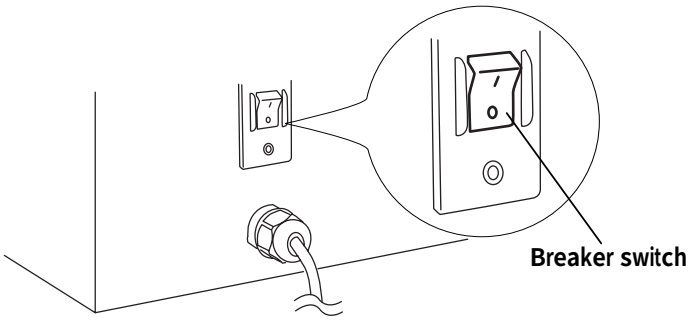
NOTE

- Do not pull the media forcibly. If doing so, it may cause print quality problems by rubbing of media.

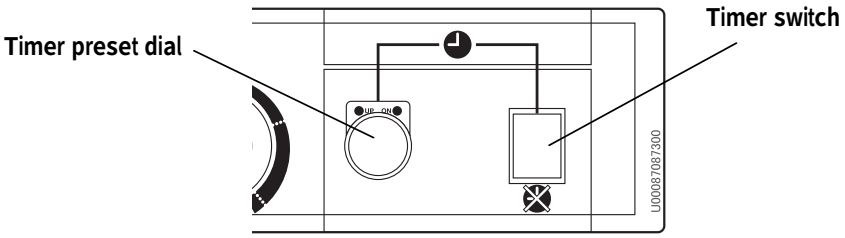
Section 5 Using the Timer

This Section explains how to use the timer.

1. Turn off (○) the breaker switch of the dryer.



2. Turn the timer switch on.



3. Preset the time up time of the off-timer using the timer preset dial.

4. Turn on (|) the breaker switch of the dryer.

HINT

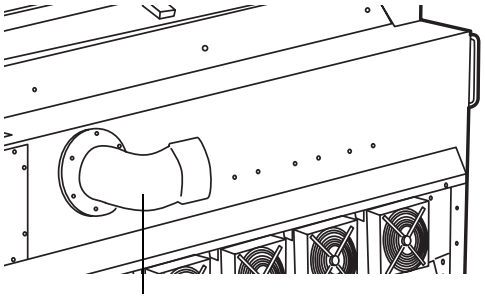
- The timer is turned off at the preset time when the timer counts up form the turning on the breaker switch of the dryer.
- The fans keep up turning even if the preset time has passed.

Section 6 Attaching the Exhaust Attachments

This Section explains how to attach the exhaust attachments to the dryer.

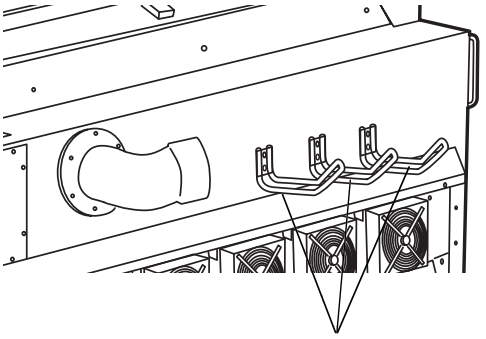
Attach them according to the following procedures.

1. Attach the exhausting pipe of the exhaust attachments to the dryer with screws.



Exhausting pipe

2. Attach the three exhausting pipe supports of the exhaust attachments to the dryer with screws.



Exhausting pipe support

NOTE

- Excessively rising exhausting airflow makes it hard to increase heater temperature.

Section 7 Maintenance and Cleaning

7-1 Maintenance

Regular inspections of the dryer are performed at the same time as the IP-6600 printer's. If an error occurs, service personnel is dispatched to remove the error at customer's site. If the error cannot be removed at the site, send back the dryer or its parts to the factory to fix the error.

7-2 Cleaning Outer Case

If the outer case of the dryer is stained, clean it with a soft cloth soaked in water or water downed neutral detergent.

NOTE
- Turn off the dryer power switch before cleaning.
- Do not use volatile solvent such as thinner and benzine to prevent discoloring or deterioration of the dryer.

Section 8 Specifications

Item	Specifications
Dimensions	1990 (W) x 430 (D) x 935 (H) ± 10 mm
Weight	60 kg or less
Color	Steel part: Dark grey Aluminum part: No coating Cloth : Deep blue
Maximum media width	1640 mm
Heater type	Seethe heater
Media feed speed	16 m^2/hour (Media width: 50 inch or more)
Warm up time	20 minutes or less
Media path	Winding or straight output
Heater temperature	30 to 60 ºC at thermistor; The heater turns on and off automatically to keep the preset temperature.
FAN airflow control	No step setting
Off-timer	Preset range: 1 to 12 hours by one hour step. Preset accuracy: ± 10%
Power cord length	3100± 100 mm
Acquired regulations and standards	(IP-260) CE (IP-263) UL, CSA, FCC class A
Exhausting	Available by attaching the exhauster attachments (option)
Power consumption	3.2 kW
Input power voltage	207 to 253 VAC
Input power frequency	50 Hz ± 1 Hz
Momentary power failure	20 msec or more
Inrush current	35 A or less
Grounding	D class grounding (The 3rd class grounding)
Operation temperature and humidity range	Temperature: 15 to 30 ºC Humidity: 30 to 70%RH (No condensing)
Standby temperature and humdity range	Temperature: 5 to 35 ºC Humidity: 10 to 80%RH (No condensing)
Fine particles level	Equivalent to office environment
Ventilation	Ventilation facilities are strongly recommended for deodorizing
Required installation space	See 2-1 Required Installation Space.